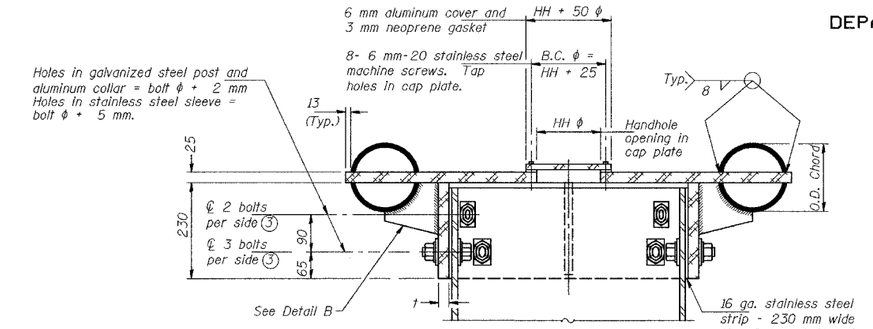
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	PEORIA	1360	1321
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS	PROJECT	

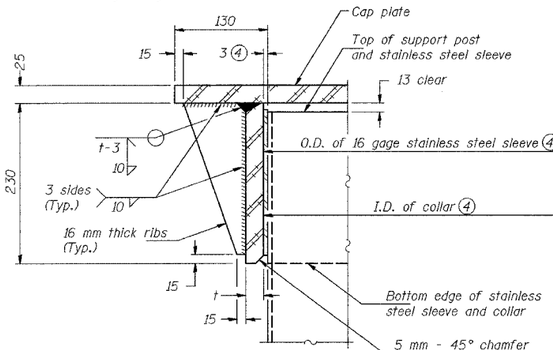
*(72-7)R-3 CONTRACT NO. 68200



SECTION B-B

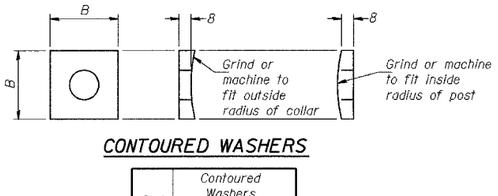
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

(4) Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 3 mm (±2 mm). Maximum gap between post and collar at any location equals 3 mm before tightening bolts.



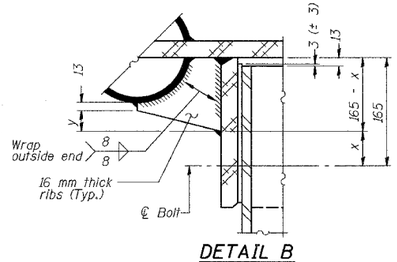
DETAIL A

(Two locations)



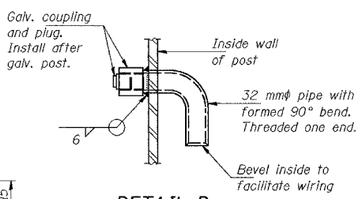
CONTOURED WASHERS

Bolt Dia.	Contoured Washers	
	Hole Dia.	B
22	25	64
25	29	75
32	35	83



DETAIL B

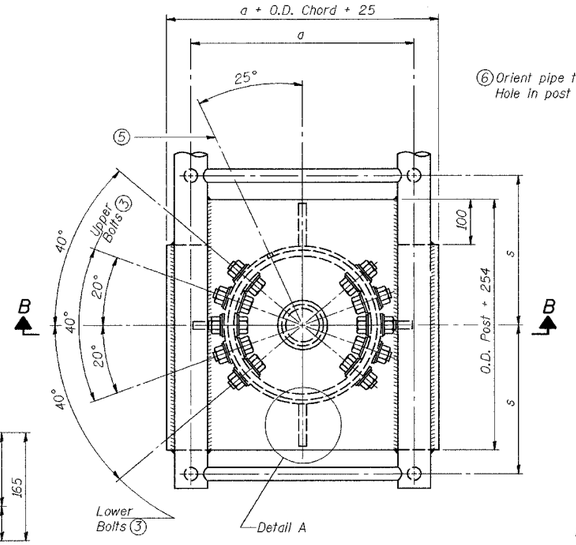
Two locations
(For details not shown, see Detail C)



DETAIL D

DETAIL OF STAINLESS STEEL SLEEVE

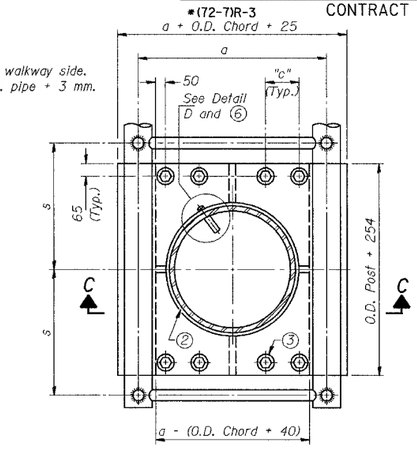
Weld to post after galvanizing.
(Prepare post surface to insure tight, uniform fit and allow welding.)
Welds to be 40 mm long at 150 mm cts. along top edge and at 6 mm opening.



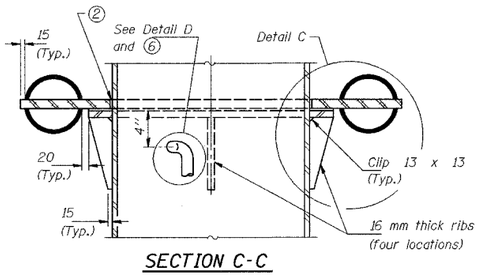
PLAN VIEW - TOP OF COLUMN

(5) Optional full penetration weld in collar.
(Two locations maximum....(180° apart)....X-ray or UT 100%)

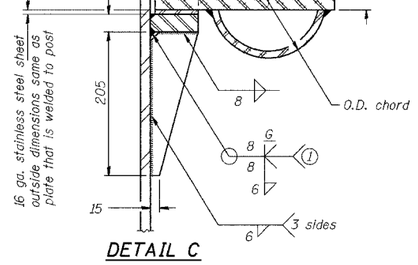
(6) Orient pipe toward walkway side.
Hole in post = O.D. pipe + 3 mm.



SECTION THRU POST ABOVE LOWER CHORDS



SECTION C-C



DETAIL C

(1) Grind top if required to fully seat aluminum plate and stainless steel sheet.

(2) After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in "Overhead Sign Structure-Cantilever...".

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter (3)	Lower Juncture Bolt Spacing Dimension "c" (3)	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	406 ϕ (124 kg/m)	22	85	205	16	45	56
II-C-A	610 ϕ (152 kg/m)	25	90	305	22	50	32
III-C-A (10.7 Max.)	610ϕ (186 kg/m)	32	90	305	22	50	25
III-C-A (>10.7 to 12.2)	610ϕ (254 kg/m)	32	90	305	22	50	25

(3) Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have two stainless steel flat washers each.

DESIGNED	RJW
CHECKED	KJN
DRAWN	RJW
CHECKED	KJN

2004
EXAMINED
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

OSC-A-3(M) 11/1/2002

NUMBER	REVISION	DATE

SIGNING SHEET 73 OF 83

CANTILEVER SIGN STRUCTURES
JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING PLAN

WAR MEMORIAL DR. STA. 39+700, 4C072U150R024.7
WAR MEMORIAL DR. STA. 40+105, 4C072U150R024.9

PEORIA CO., IL. DATE: 11-11-04

M:/Proj3573/Sign Structures/Contract 10/spl003-7Acan-dlm.dgn